

NUTPLATES

Nutplates are used in blind mount applications, where hex nuts are impractical or where an attached nut makes maintenance or disassembly easier. Floating nutplates are extremely useful in applications where misalignment and/or size is a problem (body panels, skirts, spoilers, etc.).

MS 21047 two lug, low height, steel, 450°F, self-locking

MS 21051 one lug, low height, steel, 450°F, self-locking

MS 21055 corner, low height, steel, 450°F, self-locking

MS 21059 two lug, low height, steel, 450°F, self-locking, floating

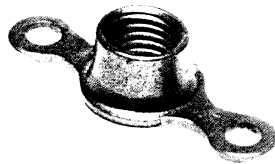
MS 21061 one lug, low height, steel, 450°F, self-locking, floating

MS 21069 two lug, low height, steel, 450°F, self-locking, reduced rivet spacing

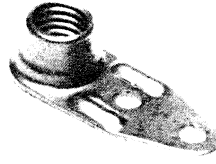
MS 21071 one lug, low height, steel, 450°F, self-locking, reduced rivet spacing

MS 21073 corner, low height, steel, 450°F, self-locking, reduced rivet spacing

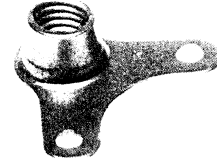
MS 21075 two lug, low height, steel, 450°F, self-locking, floating and reduced rivet spacing



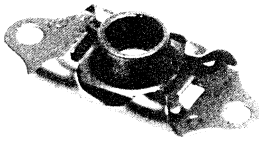
MS 21047



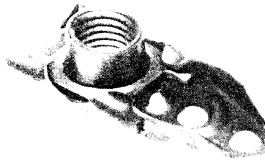
MS 21051



MS 21055



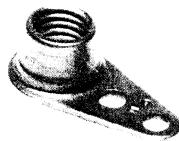
MS 21059



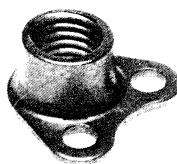
MS 21061



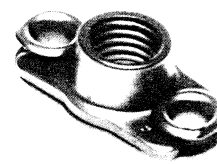
MS 21069



MS 21071



MS 21073



MS 21075

Upper threaded portion formed out of round to produce self-locking action.

Countersunk rivet holes when specified.

.062 Min. Thread Relief (Except -.06)

PART NUMBER	THREAD (MIL-S-8879)	A MAX	B REF	C ±.005	D MIN	G ±.001	H MAX	J ±.002	K +.005 -.000	V MAX	W MAX	APPROX WT LBS/100
21047-06	.1380-32 UNJ-C-3B	948	.215	.344	—	.200	.145	.688	.098	.032	.265	.14
21047-08	.1640-32 UNJ-C-3B	948	.215	.344	.168	.200	.215	.688	.098	.032	.297	.19
21047-3	.1900-32 UNJ-F-3B	948	.215	.344	.194	.200	.220	.688	.098	.032	.328	.22
21047-4	.2500-28 UNJ-F-3B	1,260	.215	.500	.254	.200	.281	1,000	.098	.040	.414	.43
21047-5	.3125-24 UNJ-F-3B	1,292	.265	.500	.317	.230	.328	1,000	.130	.050	.505	.68
21047-6	.3750-24 UNJ-F-3B	1,292	.265	.500	.379	.230	.344	1,000	.130	.055	.614	.87
21047-7	.4375-20 UNJ-F-3B	1,477	.327	.562	.442	.230	.390	1,125	.161	.074	.719	1.65

MATERIAL: C1050 carbon steel per AMS 5085 (UNS G10500) or 8740 alloy steel per AMS 6322 (UNS G8740).

FINISH: Cadmium plate per QQ-P-416, Type II, Class 2 and Kaylube molybdenum disulfide dry film lubricant per MIL-L-46010.

PERFORMANCE: MIL-N-25027.

MS 21047 NUTPLATE

Upper threaded portion formed out of round to produce self-locking action.

Countersunk rivet holes when specified.

.062 Min. Thread Relief (Except -.06)

PART NUMBER	THREAD (MIL-S-8879)	A MAX	B REF	C ±.002	D MIN	E REF	G ±.010	H MAX	J ±.002	K +.005 -.000	V REF	APPROX WT LBS/100
21055-06	.1380-32 UNJ-C-3B	.637	.250	.466	—	.133	.200	.145	.344	.098	.032	.20
21055-08	.1640-32 UNJ-C-3B	.637	.250	.466	.168	.149	.200	.215	.344	.098	.032	.24
21055-3	.1900-32 UNJ-F-3B	.653	.250	.466	.194	.164	.200	.220	.344	.098	.040	.25
21055-4	.2500-28 UNJ-F-3B	.852	.250	.707	.254	.207	.200	.281	.500	.098	.050	.50
21055-5	.3125-24 UNJ-F-3B	.914	.322	.707	.317	.253	.230	.328	.500	.130	.055	.77
21055-6	.3750-24 UNJ-F-3B	.968	.322	.707	.379	.307	.230	.344	.500	.130	.055	.95
21055-7	.4375-20 UNJ-F-3B	1,101	.342	.795	.442	.363	—	.390	.562	.161	.074	1.68

MATERIAL: Carbon steel per AMS 5085 (UNS G10500) or alloy steel per AMS 6322 (UNS G8740).

FINISH: Cadmium plate per QQ-P-416, Type II, Class 2 and Kaylube molybdenum disulfide dry film lubricant per MIL-L-46010.

PERFORMANCE: MIL-N-25027.

MS 21055 NUTPLATE

PART NUMBER	THREAD (MIL-S-8879)	A MAX	C ±.005	D MIN	G ±.010	H MAX	J ±.005	K +.005 / -.000	P REF	V REF	W MAX	APPROX. WT. LBS/100
21059-04	.1120-40 UNJC-3B	.948	.344	—	.200	.153	.668	.098	.250	.020	.416	.31
21059-06	.1380-32 UNJC-3B	.948	.344	—	.200	.170	.668	.098	.250	.020	.416	.34
21059-08	.1640-32 UNJC-3B	.948	.344	.168	.200	.250	.668	.098	.250	.020	.416	.36
21059-3	.1900-32 UNJF-3B	.948	.344	.194	.200	.250	.668	.098	.250	.020	.416	.37
21059-4	.2500-28 UNJF-3B	1.292	.500	.254	.200	.281	1.000	.098	.312	.020	.516	.66
21059-5	.3125-24 UNJF-3B	1.292	.500	.317	.230	.328	1.000	.130	.375	.025	.609	1.09
21059-6	.3750-24 UNJF-3B	1.292	.500	.379	.230	.344	1.000	.130	.437	.025	.680	1.33

MATERIAL: C1050 carbon steel per AMS 5085 (UNS G10500). Heat treat - Rc 49, maximum.

FINISH: Cadmium plate per QQ-P-416, Type II, Class 2 and Kaylube molybdenum disulfide dry lubricant per MIL-L-46010.

FLOATABILITY: .030 minimum radially from center.

MS 21059 NUTPLATE

PART NUMBER	THREAD (MIL-S-8879)	A MAX	B REF	C ±.005	D MIN	E REF	G ±.010	H MAX	J ±.002	K +.005 / -.000	P REF	R REF	V REF	W MAX	APPROX. WT. LBS/100
21061-04	.1120-40 UNJC-3B	1.051	.328	.344	—	.275	.200	.180	.312	.098	.250	.130	.025	.422	.36
21061-06	.1380-32 UNJC-3B	1.051	.328	.344	—	.275	.200	.175	.312	.098	.250	.130	.025	.422	.38
21061-08	.1640-32 UNJC-3B	1.051	.328	.344	.168	.275	.200	.250	.312	.098	.250	.130	.025	.422	.50
21061-3	.1900-32 UNJF-3B	1.051	.328	.344	.194	.275	.200	.250	.312	.098	.250	.130	.025	.422	.50
21061-4	.2500-28 UNJF-3B	1.306	.359	.500	.254	.364	.200	.281	.312	.098	.312	.130	.025	.531	.82
21061-5	.3125-24 UNJF-3B	1.396	.391	.500	.317	.440	.230	.328	.312	.130	.375	.141	.025	.641	1.45
21061-6	.3750-24 UNJF-3B	1.441	.422	.500	.379	.485	.230	.344	.312	.130	.437	.141	.025	.703	1.45

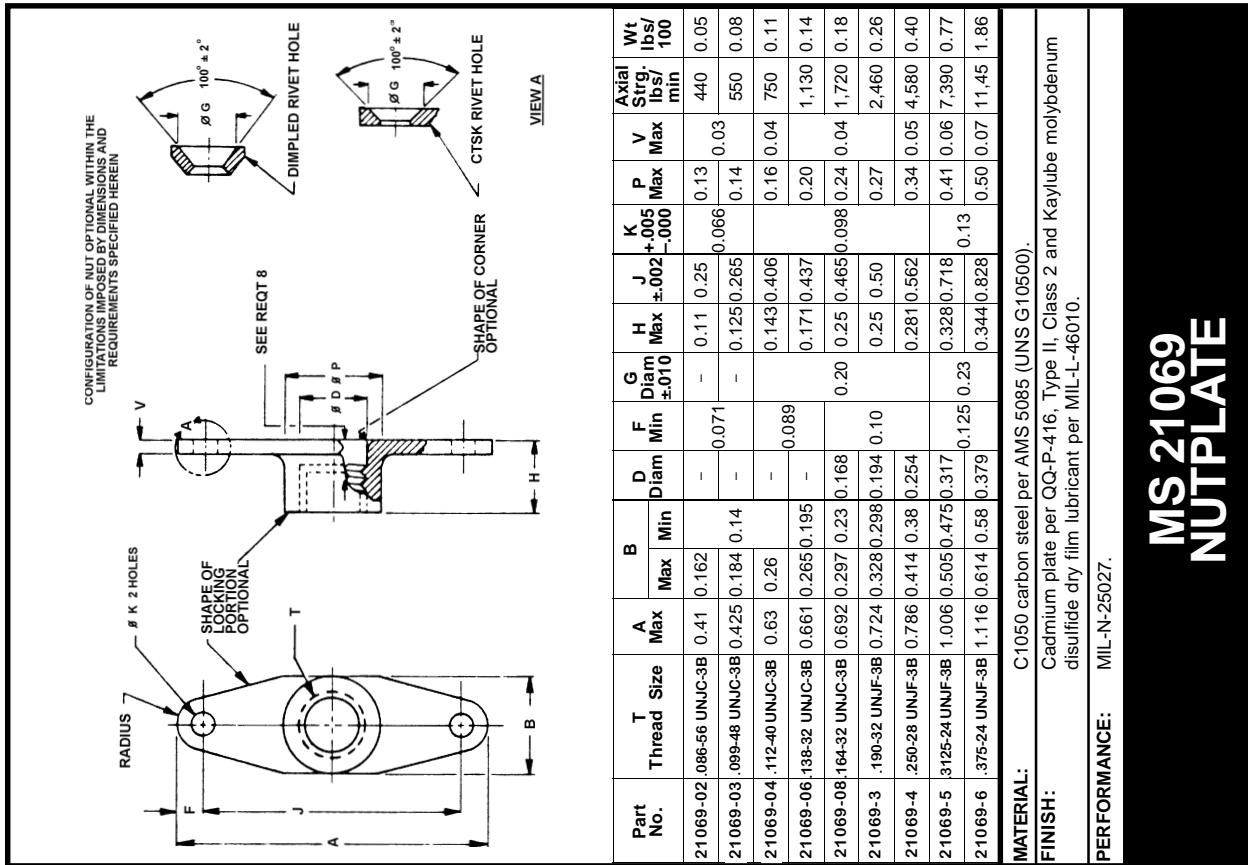
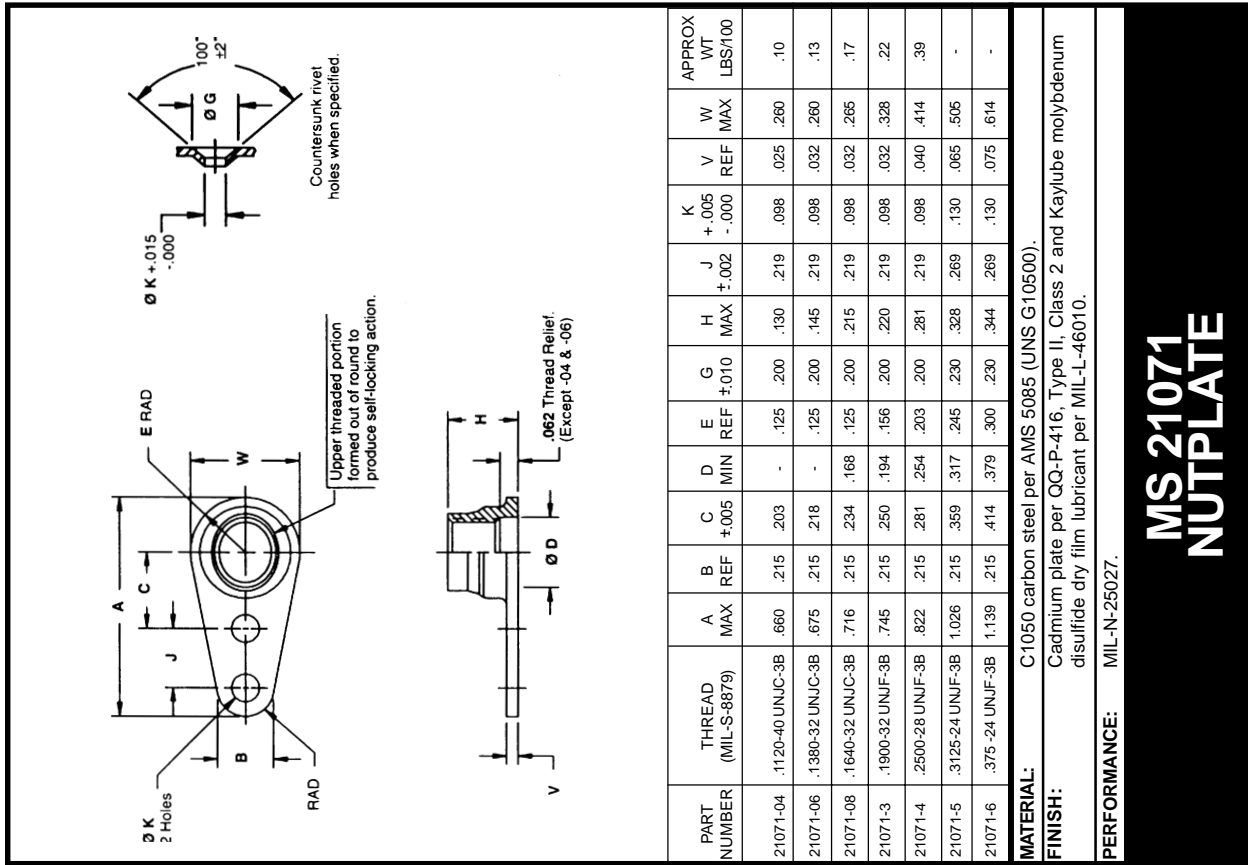
MATERIAL: Carbon steel per AMS 5085 (UNS G10500).

FINISH: Cadmium plate per QQ-P-416, Type II, Class 2 and Kaylube molybdenum disulfide dry film lubricant per MIL-L-46010.

PERFORMANCE: MIL-N-25027.

FLOATABILITY: -.06 through -.4; .030 minimum radially from center. -.5 up; .025 minimum radially from center.

MS 21061 NUTPLATE



Part No.	Thread Size	A		B		D Diam Min	F Diam ±.010	G Diam ±.010	H Max	J ±.002	K +.005 -.000	P Max	V Max	Axial Strg. lbs/100 min	Wt. lbs/100
		Max	Min	Max	Min										
21069-02	.086-56 UNJC-3B	0.41	0.162						0.11	0.25	0.13	0.03	440	0.05	
21069-03	.089-48 UNJC-3B	0.425	0.184	0.14					0.125	0.265	0.14		550	0.08	
21069-04	.112-40 UNJC-3B	0.63	0.26						0.143	0.406	0.16	0.04	750	0.11	
21069-06	.138-32 UNJC-3B	0.661	0.265	0.195					0.171	0.437	0.20		1,130	0.14	
21069-08	.164-32 UNJC-3B	0.692	0.297	0.23	0.168			0.20	0.25	0.465	0.24	0.04	1,720	0.18	
21069-3	.190-32 UNJF-3B	0.724	0.328	0.298	0.194	0.10			0.25	0.50	0.27		2,460	0.26	
21069-4	.250-28 UNJF-3B	0.786	0.414	0.38	0.254				0.281	0.562	0.34	0.05	4,580	0.40	
21069-5	.3125-24 UNJF-3B	1.006	0.505	0.475	0.317				0.328	0.718	0.41	0.06	7,390	0.77	
21069-6	.375-24 UNJF-3B	1.116	0.614	0.58	0.379				0.344	0.828	0.50	0.07	11,45	1.86	

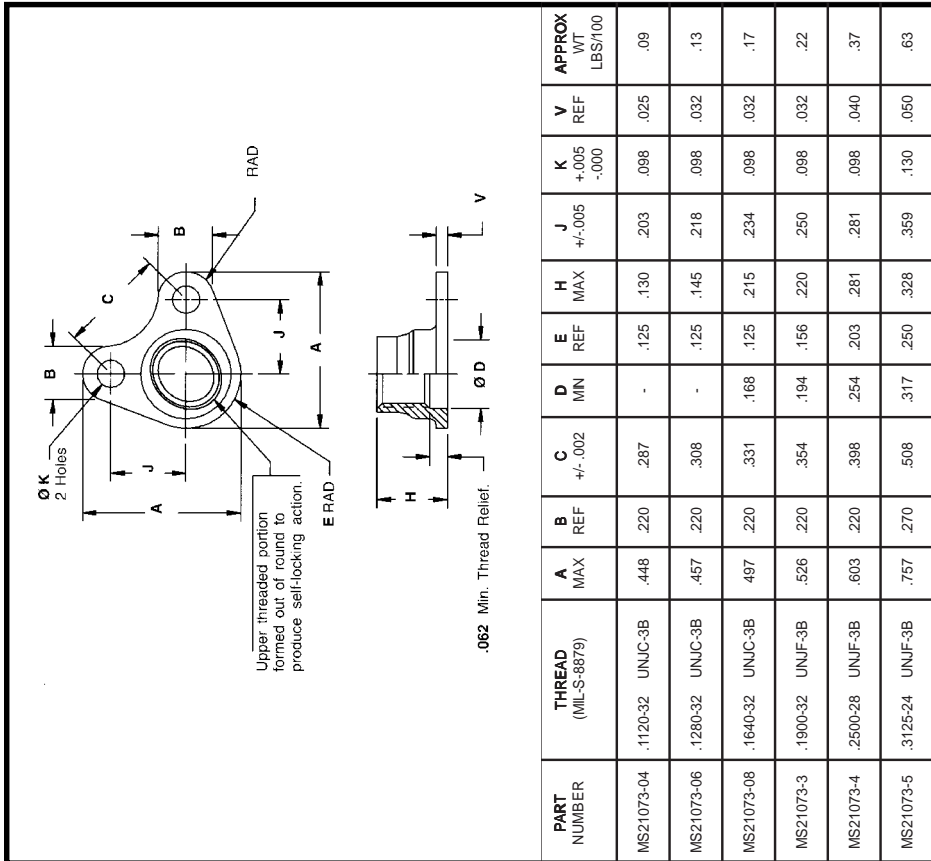
MATERIAL: C1050 carbon steel per AMS 5085 (UNS G10500).
FINISH: Cadmium plate per QQ-P-416, Type II, Class 2 and Kaylube molybdenum disulfide dry film lubricant per MIL-L-46010.
PERFORMANCE: MIL-N-25027.

MS 21069 NUTPLATE

MS 21071 NUTPLATE

MATERIAL: C1050 carbon steel per AMS 5085 (UNS G10500).
FINISH: Cadmium plate per QQ-P-416, Type II, Class 2 and Kaylube molybdenum disulfide dry film lubricant per MIL-L-46010.
PERFORMANCE: MIL-N-25027.

PART NUMBER	THREAD (MIL-S-8879)	A MAX	B REF	C REF	D MIN	E REF	G REF	H MAX	J TOLERANCE	K TOLERANCE	V REF	W MAX	APPROX WGT LBS/100
21071-04	.1120-40 UNJC-3B	.660	.215	.203	-	.125	.200	.130	.219	.098	.025	.260	.10
21071-06	.1380-32 UNJC-3B	.675	.215	.218	-	.125	.200	.145	.219	.098	.032	.260	.13
21071-08	.1640-32 UNJC-3B	.716	.215	.234	.168	.125	.200	.215	.219	.098	.032	.265	.17
21071-3	.1900-32 UNJF-3B	.745	.215	.250	.194	.156	.200	.220	.219	.098	.032	.328	.22
21071-4	.2500-28 UNJF-3B	.822	.215	.281	.254	.203	.200	.281	.219	.098	.040	.414	.39
21071-5	.3125-24 UNJF-3B	1.026	.215	.359	.317	.245	.230	.328	.269	.130	.065	.505	-
21071-6	.375-24 UNJF-3B	1.139	.215	.414	.379	.300	.230	.344	.269	.130	.075	.614	-



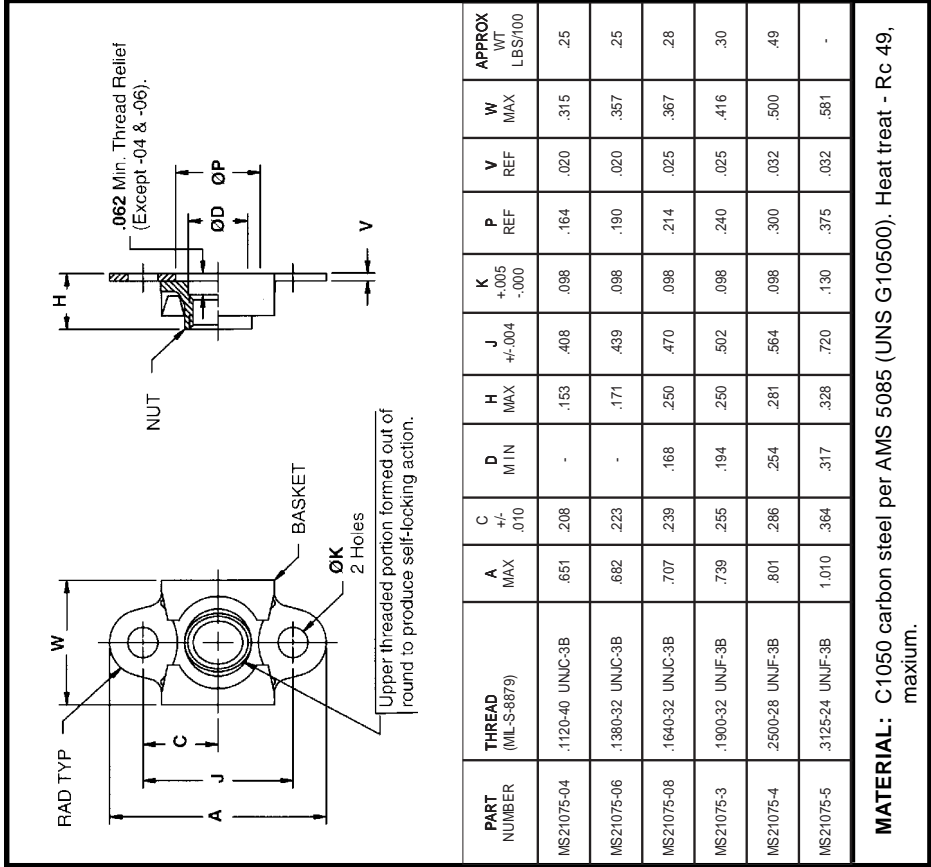
PART NUMBER	THREAD (MIL-S-8879)	A MAX	B REF	C +/- .002	D MIN	E REF	H MAX	J +/- .005	K +.005 - .000	V REF	APPROX WT LBS/100
MS21073-04	.1120-32 UNJC-3B	.448	.220	.287	-	.125	.130	.203	.098	.025	.09
MS21073-06	.1280-32 UNJC-3B	.457	.220	.308	-	.125	.145	.218	.098	.032	.13
MS21073-08	.1640-32 UNJC-3B	.497	.220	.331	.168	.125	.215	.234	.098	.032	.17
MS21073-3	.1900-32 UNJF-3B	.526	.220	.354	.194	.156	.220	.250	.098	.032	.22
MS21073-4	.2500-28 UNJF-3B	.603	.220	.398	.254	.203	.281	.281	.098	.040	.37
MS21073-5	.3125-24 UNJF-3B	.757	.270	.508	.317	.250	.328	.359	.130	.050	.63

MATERIAL: Carbon steel per AMS 5085 (UNS G10500).

FINISH: Cadmium plate per QQ-P-416, Type II Class 2 and Kaylube molybdenum disulfide dry film lubricant per MIL-L-460010

PERFORMANCE: MIL-N-25027

MS 21073 NUTPLATE



PART NUMBER	THREAD (MIL-S-8879)	A MAX	C +/- .010	D MIN	H MAX	J +/- .004	K +.005 - .000	P REF	V REF	W MAX	APPROX WT LBS/100
MS21075-04	.1120-40 UNJC-3B	.651	.208	-	.153	.408	.098	.164	.020	.315	.25
MS21075-06	.1380-32 UNJC-3B	.682	.223	-	.171	.439	.098	.190	.020	.357	.25
MS21075-08	.1640-32 UNJC-3B	.707	.239	.168	.250	.470	.098	.214	.025	.367	.28
MS21075-3	.1900-32 UNJF-3B	.739	.255	.194	.250	.502	.098	.240	.025	.416	.30
MS21075-4	.2500-28 UNJF-3B	.801	.286	.254	.281	.564	.098	.300	.032	.500	.49
MS21075-5	.3125-24 UNJF-3B	1.010	.364	.317	.328	.720	.130	.375	.032	.581	-

MATERIAL: C1050 carbon steel per AMS 5085 (UNS G10500). Heat treat - Rc 49, maximum.

FINISH: Cadmium plate per QQ-P-416, Type II Class 2 and Kaylube molybdenum disulfide dry film lubricant per MIL-L-460010

FLOATABILITY: .030 min. radially from center

MS 21075 NUTPLATE